Black and Decker LDX 120C Safety switch and trigger chip Replacement

This guide will demonstrate a step by step process on how to fix the trigger chip as well as the safety switch.

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INTRODUCTION

If the trigger or the safety switch on the drill is stuck or jammed. This guide will illustrate on how to solve this problem.

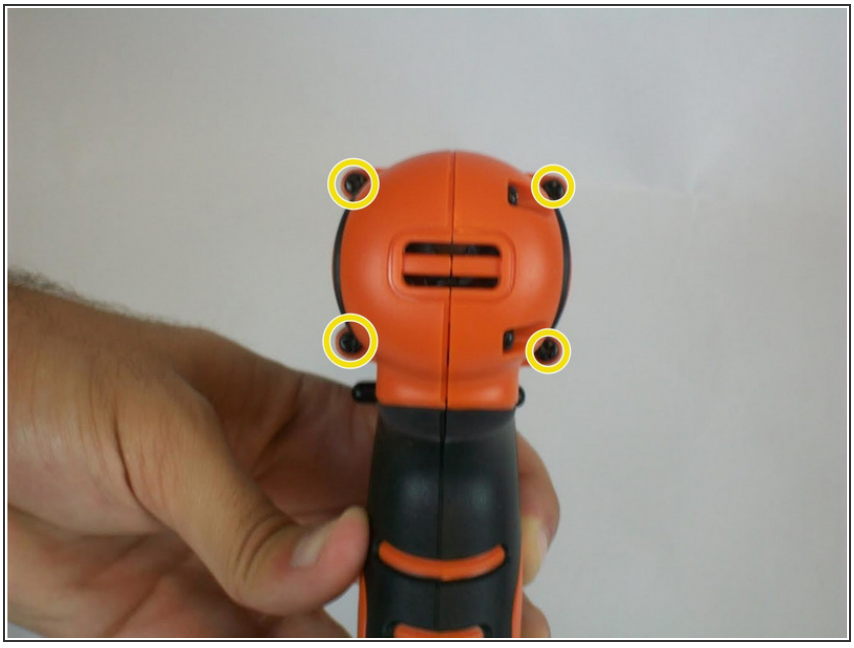
TOOLS:

- IFixit Pro Tech Toolkit (1)
- Phillips #1 Screwdriver (1)
- iFixit Opening Tools (1)

Step 1 — Outer Case

- For this guide we will need to use a 1.0 mm phillips #1 screw.
- There are a total of thirteen screws that need to be removed in order to open the drill and access the interior components.

Step 2



- Remove the four screws on the back top side of the drill.

Step 3

- Remove the four screws that connect the chuck to the drill.

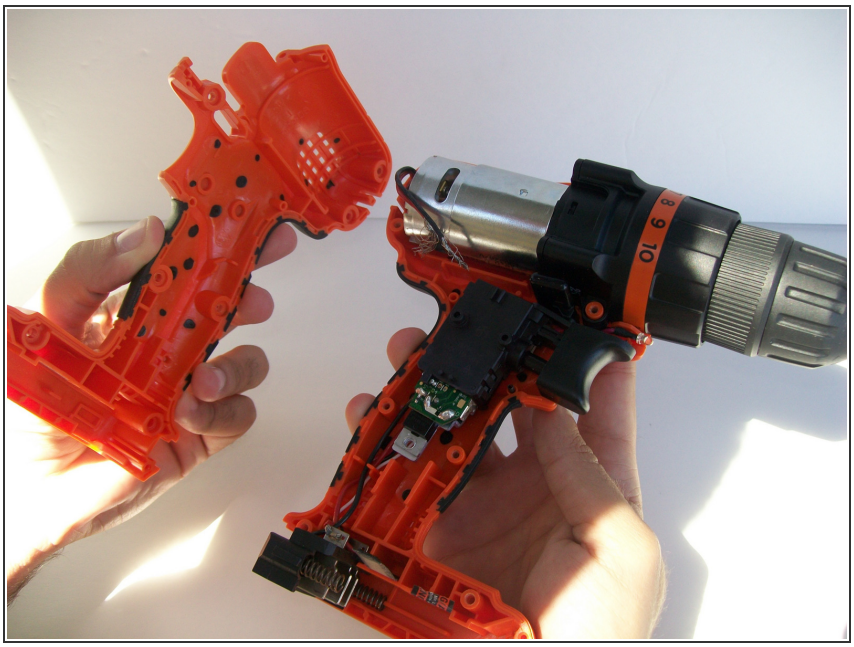
Step 4

- Remove the five screws on the front side of the drill.

Step 5

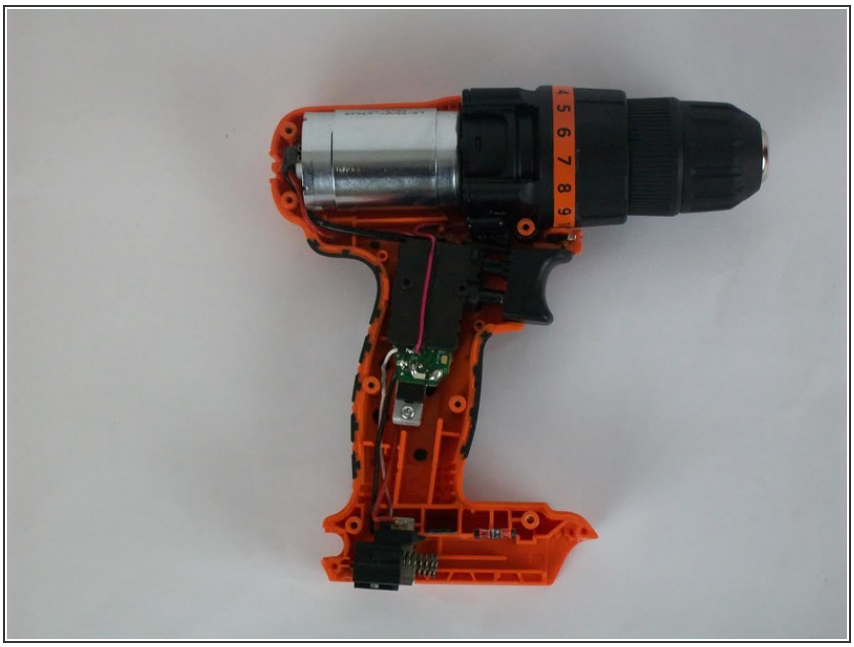
- Gently grab both sides of the drill casing, and separate both sides from each other.

Step 6



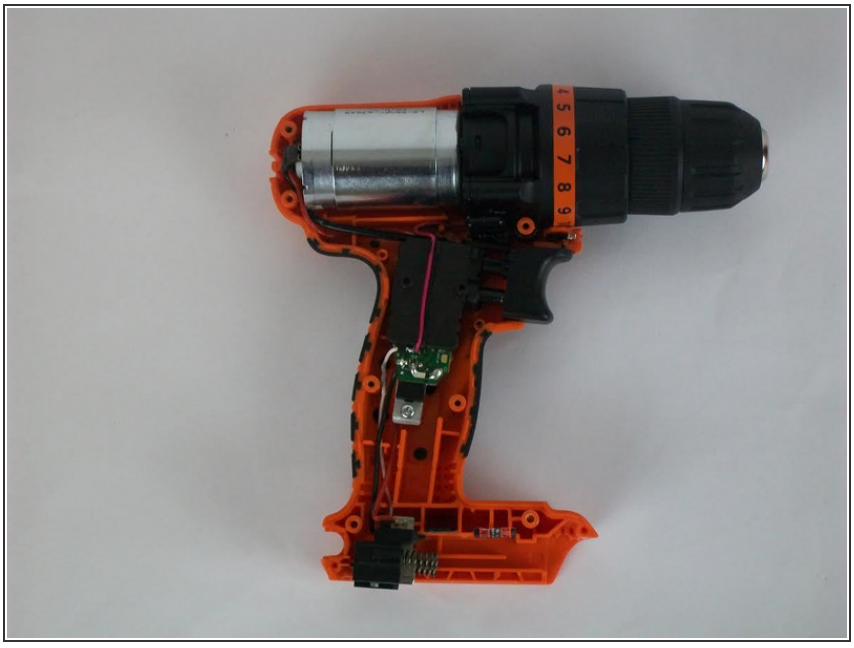
- At this point you should be able to separate both as illustrated.

Step 7



- Now all the components of the drill are visible and can be accessed.

Step 8 — Safety switch and trigger chip

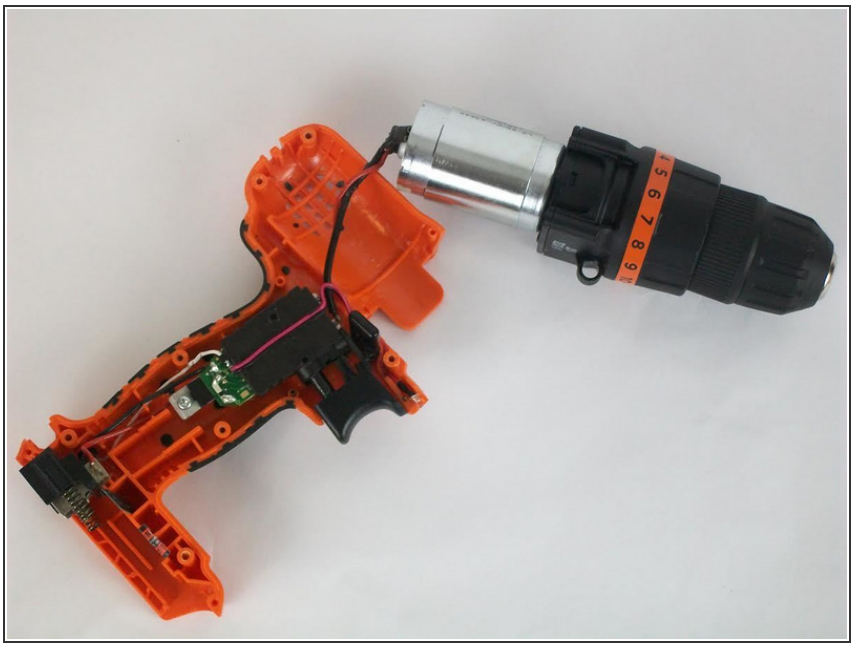


- After following the prerequisite guide the interior components of the drill can now be accessed.

Step 9

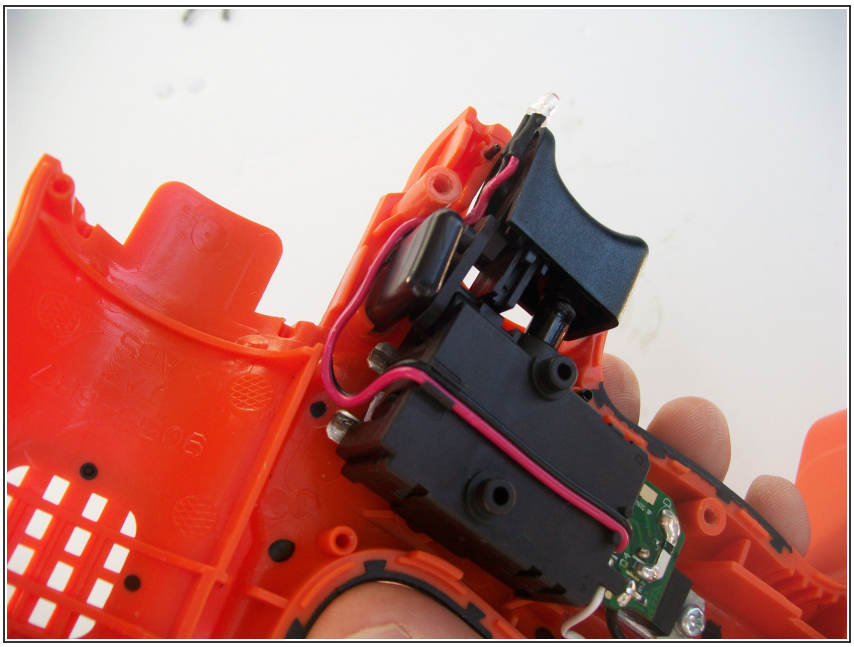
- Separate the top part from the rest of the drill.

Step 10



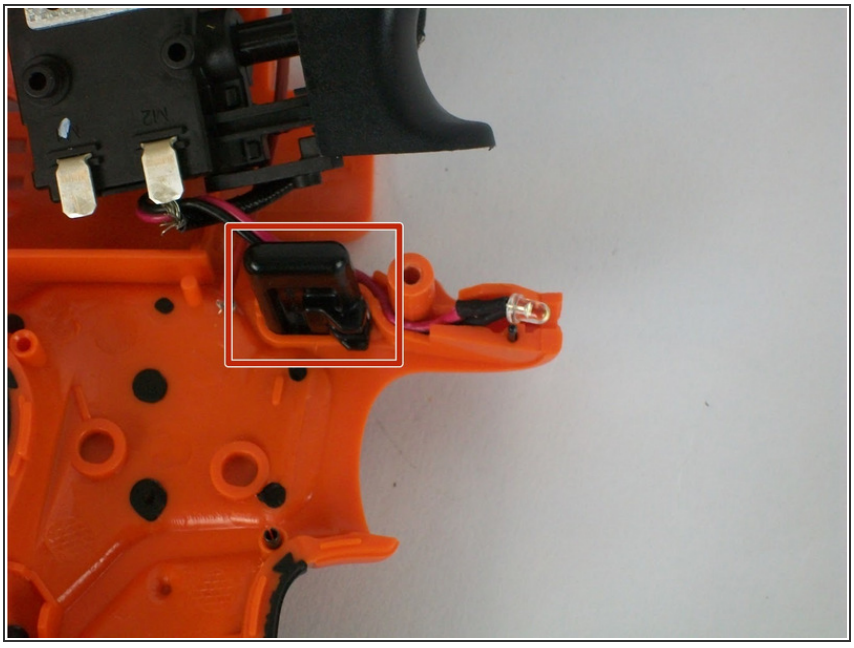
Do this with care so that no wire connection is damaged.

Step 11



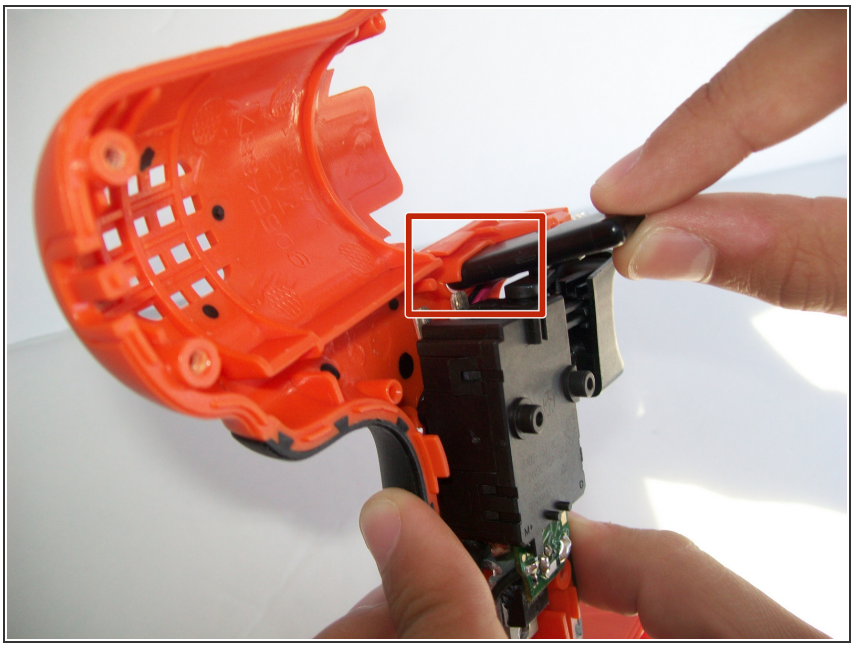
- Remove the other part from the rest of the drill.

Step 12



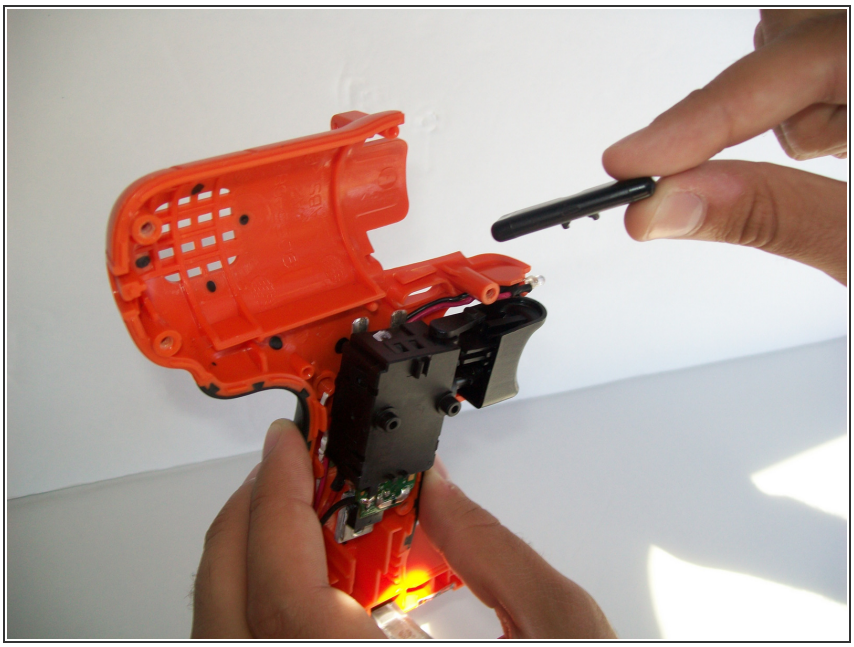
- Check if the safety switch is well placed in its path, or if it is getting jammed by something.
- If it is broken simply replace it with a new one.

Step 13



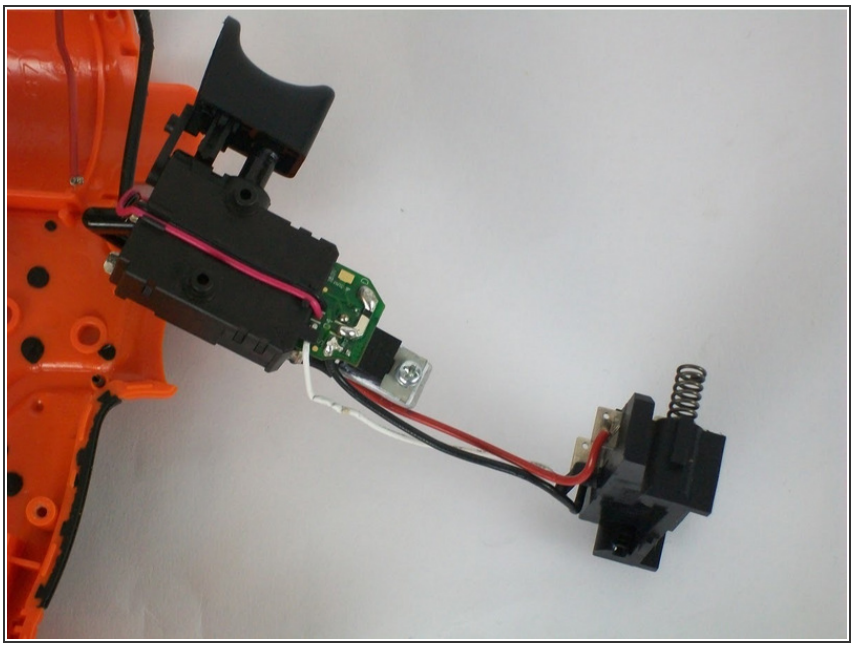
- Slowly pull the safety switch from the its place.

Step 14



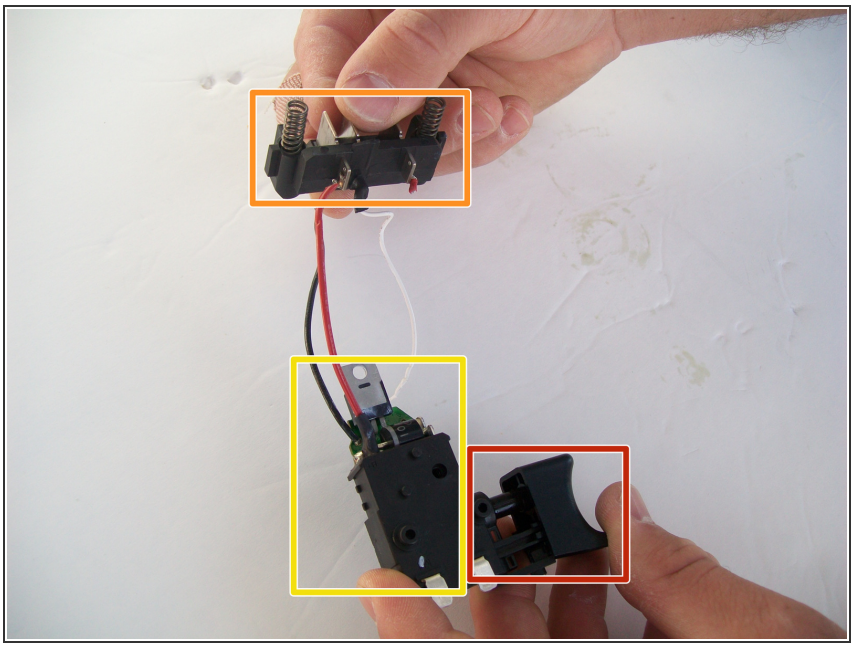
- After removing the old safety switch a new one can now be replaced.

Step 15



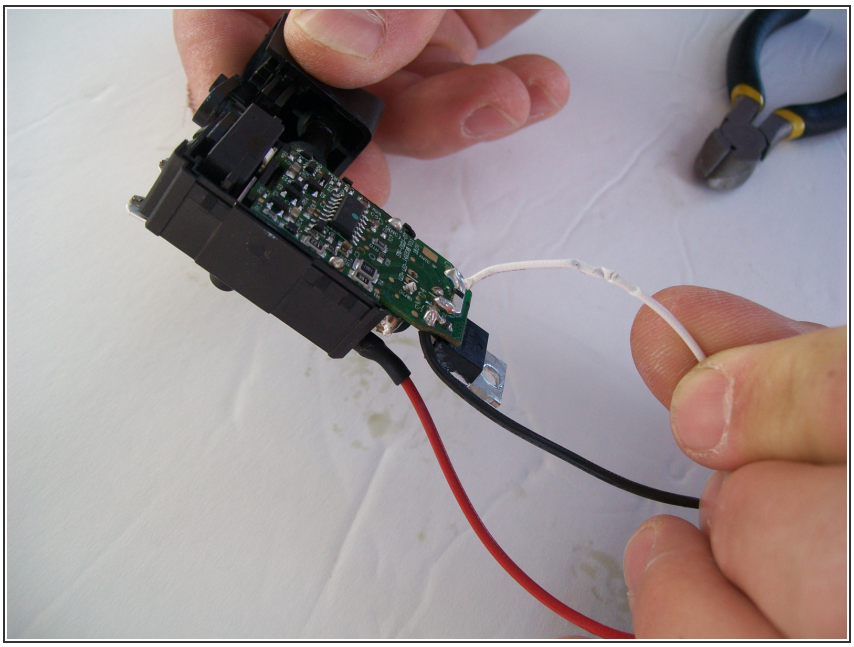
- Now the connections can clearly be seen.

Step 16



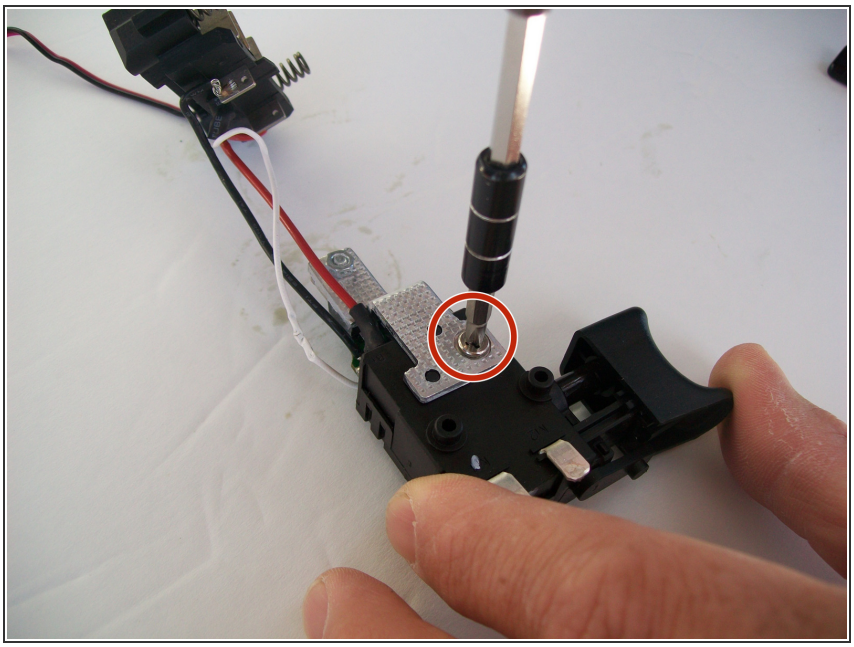
- The trigger is indicated by the red box.
- The battery connector is indicated by the orange box.
- The chip is indicated by the yellow box.

Step 17



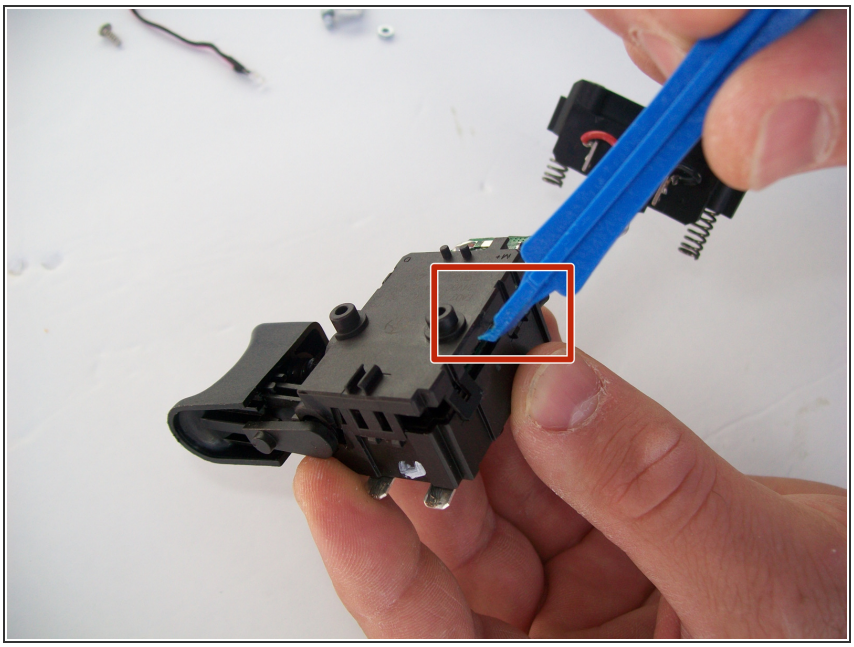
- Check if all the connections are not intact.

Step 18



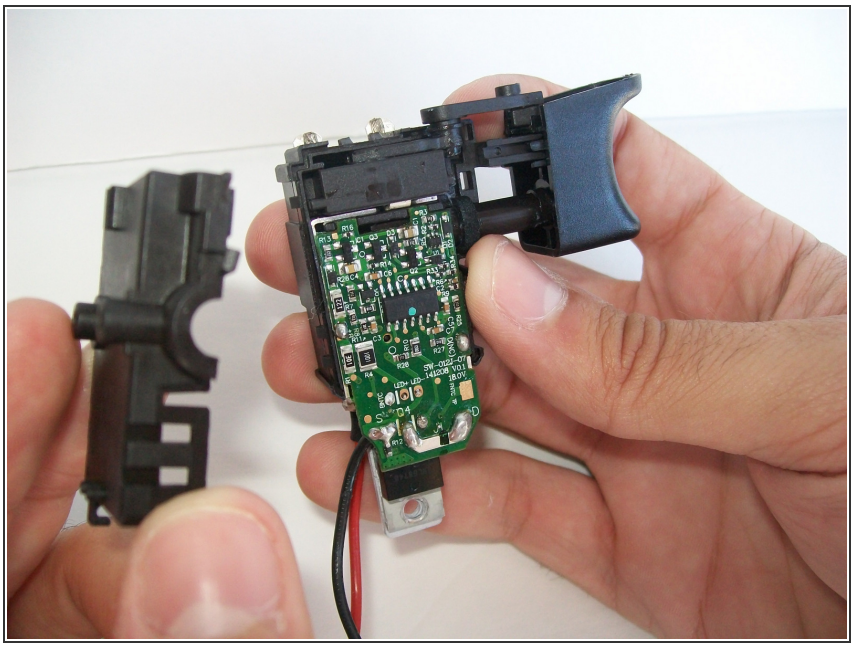
- You will need to check on the connections to the chip.
- Undo the screw as indicated.

Step 19



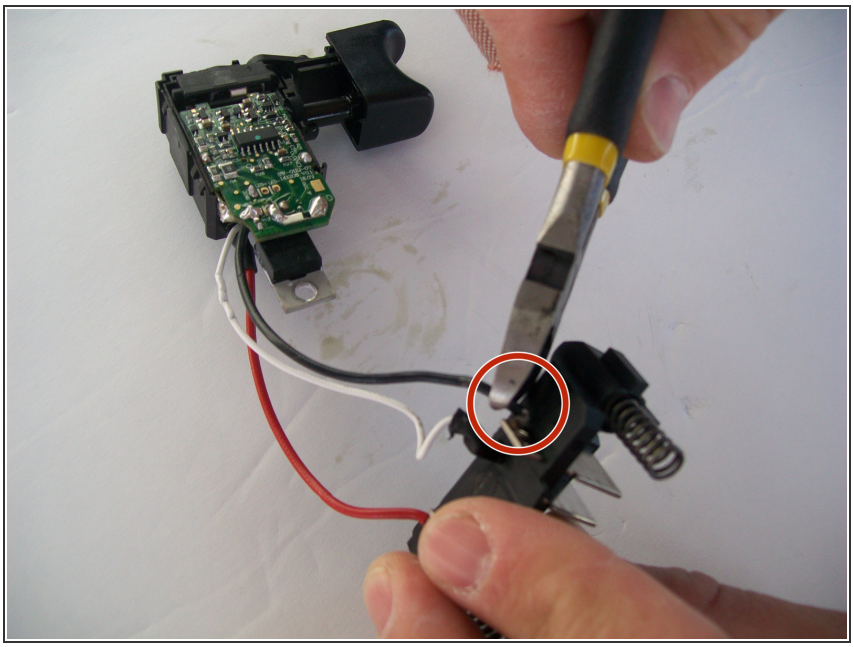
- Then use a plastic opening tool to open the box compartment.

Step 20



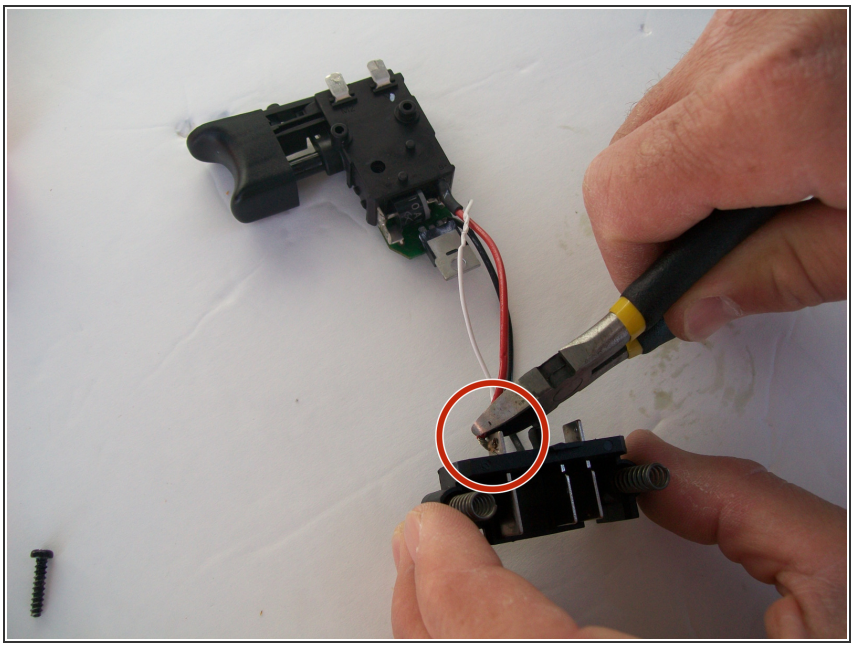
- The connections to the chip are now visible and can be inspected.
- If the connections are lose reconnect them.
- If not then the chip is damaged and will need to be replaced.

Step 21



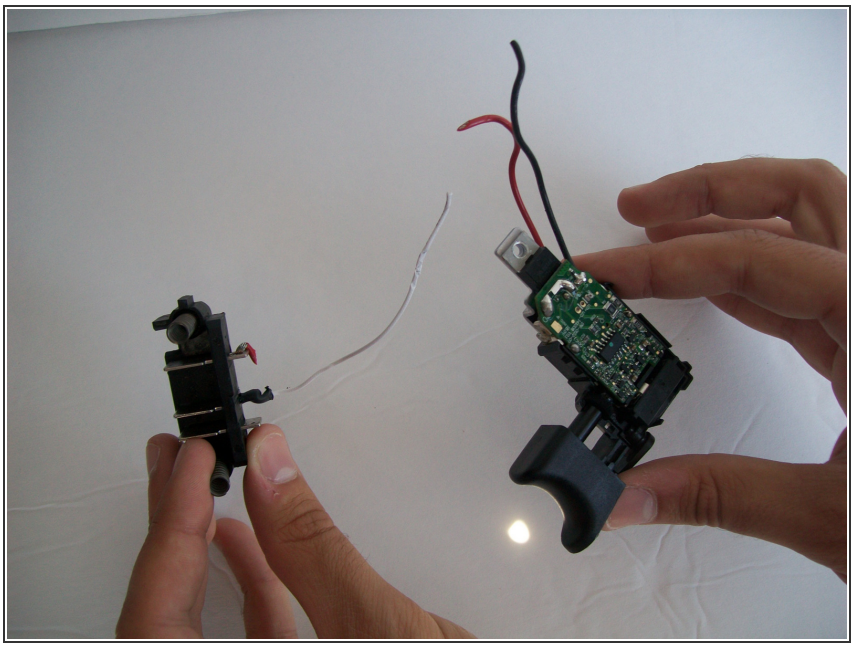
- Start by removing all the wires connected between the chip and the battery connector.
- To prevent damage to the component, consider desoldering the wires instead of cutting them. Learn more about desoldering here.

Step 22



- There is a total of 3 connections that connects the battery connector to the chip.

Step 23



- After all the wires have been removed, now the two parts can be separated.

To reassemble your device, follow these instructions in reverse order.

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